

INT NATIONAL SEARCH REPORT

International Application No

PC 02/00477

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B43/16 C01B3/36 C10G2/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B C01B C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT.

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 388 645 A (PURI RAJEN ET AL) 14 February 1995 (1995-02-14) column 11, line 57 -column 12, line 2; claim 1	1-14
A	EP 1 004 746 A (SHELL INT RESEARCH) 31 May 2000 (2000-05-31) column 4, line 34 -column 4, line 42; claim 1	1-14

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 August 2003

Date of mailing of the international search report

10.11.2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

BENGT CHRISTENSSON/ELY

INTERNATIONAL SEARCH REPORT

International Application No

1 02/00477

COPY

Patent document cited in search report		Publication date	Patent family number(s)	Publication date
US 5388645	A	14-02-1995	AU 686266 B2	05-02-1998
			AU 8077494 A	23-05-1995
			CN 1134179 A ,B	23-10-1996
			PL 315184 A1	14-10-1996
			WO 9512742 A1	11-05-1995
			US 5566755 A	22-10-1996
			US 6119778 A	19-09-2000
			ZA 9408596 A	23-06-1995
<hr/>				
EP 1004746	A	31-05-2000	EP 1004746 A1	31-05-2000
<hr/>				